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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/025,898	12/19/2001	Weiqiang Zhang	SUNMP034	9253

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EXAMINER

COFFY, EMMANUEL

ART UNIT	PAPER NUMBER
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2157

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/025,898

Applicant(s)

ZHANG ET AL.

Examiner

Emmanuel Coffy

Art Unit

2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on 19 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7,9,10,12-16 and 18-20 is/are rejected.
- 7) ☒ Claim(s) 8,11,17 and 21 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date February 17, 2005.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. This action is responsive to the application filed on December 19, 2001. Claims 1-21 are pending. Claims 1-21 are directed to a system and method for a "Remote System Controller for use in a Distributed Processing Framework System and Methods for Implementing the same."

### ***Specification***

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: "Remote System Controller and Data Center."  
See MPEP §606.01.

3. The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. Appropriate correction is required.

### ***Claim Objections***

4. Claim 14 is objected to because of the following informalities: the transitional phrase including should be followed by a colon (:). Appropriate correction is required. Applicant should ascertain that every claim adhere to this convention.

5. Claims 8, 11, 17 and 21 are objected to for being dependent upon a rejected claim.

***Claim Rejections - 35 USC § 102***

6. (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
7. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).
8. Claims 12-16 and 18-20 directed to a method are rejected under 35 USC 102(e) as being anticipated by Godfrey et al. (US 6,662,217).

Godfrey teaches a distributed test administration architecture that enables a system administrator to test one or more servers accessible by the Internet from a remote administration computer that implements a browser. (See abstract)

Claim 12:

A method for remotely accessing, scheduling, monitoring, and submitting a process, the method comprising:

launching a controller code, the controller code configured to include a data center and a user interface code; (See Fig. 1, index 22, index 26, col. 3, lines 57-65.)

registering the data center with a registry service; (Fig. 5 index 150, col. 4, lines 9-12)

initiating a first instance of a user interface component by the controller code;  
(See Fig. 8 index 214; col. 4, lines 28-31) (as part of the test set-up, the server sends test suite to the client.)

maintaining a data center copy provided to a user interface synchronized with the data center if the data center has received a data change request from a user interface;  
(See col. 7, lines 21-26.)

and monitoring an active status of the user interface if the data center has not received a data change request to the data center. (See col. 7, lines 25-28) (the event coordination structure tracks a set of events.)

Claim 13:

A method for remotely accessing, scheduling, monitoring, and submitting a process as recited in claim 12, further comprising:

initiating a second instance of a user interface component by the controller code;  
(See col. 4, lines 28-31) (as part of the test set-up, the server sends command line to the client.)

maintaining a data center copy provided to another user interface synchronized with the data center if the data center has received a data change request from a user interface. (See col. 7, lines 21-26.)

Claim 14:

A method for remotely accessing, scheduling, monitoring, and submitting a process as recited in claim 12, wherein maintaining the data center copy synchronized with the data center includes,

obtaining a copy of the data center by a user interface; (See Fig. 1, col. 4, lines 17-24.)

initiating a different instance of user interface component by the controller code; (See col. 4, lines 9-15 and 28-31) (as part of the test set-up, the central testing server loads a piece of software onto every registered server and client computer.)

registering the user interface with the data center; and (See col. 4, lines 9-10)

updating the data center upon a modification to the data center copy. (See col. 7, lines 23-25.)

Claim 15:

A method for remotely accessing, scheduling, monitoring, and submitting a process as recited in claim 14, wherein updating the data center upon the modification to the data center copy includes,

receiving a request to modify the data center copy; (See col. 9, lines 5-8.)

dispatching a refresh command to the user interface, the refresh command being configured to update the data center copy so as to maintain the data center copy synchronized with the data center; and (See col. 7, lines 23-27; 56-59.)

awaiting a receipt of a refresh acknowledged command from the user interface for a predetermined period of time. (See col. 7, lines 56-61.)

Claim 16:

A method for remotely accessing, scheduling, monitoring, and submitting a process as recited in claim 15, wherein the data center unregisters the user interface if

a refresh acknowledged command has not been received from the user interface for the predetermined period of time. (See col. 7, lines 60-64.)

Claim 18:

A method for providing synchronized data to a plurality of remote user interfaces, the method comprising:

launching a controller code having a data center and a user interface code; (See Fig. 1)

registering the data center with a registry service; (Fig. 5 index 150, col. 4, lines 9-12)

initiating a first user interface component; (See Fig. 8 index 214; col. 4, lines 28-31)

providing a copy of the data center to one or more user interfaces upon receiving a request from the one or more user interfaces; (See col. 4, lines 8-13.)

maintaining and updating a list of one or more active user interfaces, the list of one or more active user interfaces is configured to include a user interface identity and a user interface address for each of the one or more active user interfaces; See col. 7, lines 20-25 and lines 48-49.

maintaining the data center copy and data center synchronized if a data change request is received from any of the one or more user interfaces; and (See col. 7, lines 21-26.)

monitoring an active status of the one or more user interfaces if the data change request has not been received. (See col. 7, lines 25-28.)

Claim 19:

A method for providing synchronized data to a plurality of remote user interfaces as recited in claim 18, wherein maintaining the data center copy and data center code synchronized includes,

dispatching a refresh command to the one or more user interfaces; (See col. 7, lines 56-59.)

awaiting for a previously determined period of time to receive a refresh acknowledged command from the one or more user interfaces; and (See col. 7, lines 56-59.)

receiving the refresh acknowledged command from the one or more user interfaces. (See col. 4, lines 41-45)

Claim 20:

A method for providing synchronized data to a plurality of remote user interfaces as recited in claim 19, the method further including,

deleting one or more user interfaces from the list of active one or more user interfaces if a refresh acknowledged command has not been received for the user interface. (See col. 7, lines 61-64.)

***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fera (US 6,263,265) in view of Godfrey et al. (US 6,662,217).

Fera teaches the invention substantially as claimed including a method for managing a fleet of mobile assets utilizing the Internet to display information regarding the location and performance parameters of the mobile assets. (See abstract)

Claim 1:

A process execution management system, the system comprising:  
a controller system being accessible over a network to enable remote user access to data managed by the controller system, including, (See Fig. 1)

a data center component configured to include data required to execute a process by a processing resource that is in communication with the controller system;  
(See Fig. 1, index 18)

a first user interface component instance for enabling a first user interface configured to provide an interface to a first copy of the data center component, the first user interface being configured to notify the data center component of a change to the first copy of the data center component; and (See Fig. 1, index 24)

a second user interface component instance for enabling a second user interface configured to provide an interface to a second copy of the data center component, the second user interface being configured to notify the data center component of a change to the second copy of the data center component, (See Fig. 1, index 14)

wherein the data center component is configured to issue updates including the changes to each of the first copy of the data center component and the second copy of

the data center component to each of the first and second user interfaces to maintain synchronized data between the first and second user interfaces having access to the data center component.

Fera fails to explicitly disclose notifying the data center component of a change to the first copy of the data center component (issuance of updates) and data synchronization. However, Godfrey discloses data synchronization at col. 7, lines 23-27.

Fera and Godfrey are analogous art because they both involve a controller connected to a data center through users interfaces.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the service system articulated by Fera with the data synchronization system disclosed by Godfrey because if the data in the data center were lost, the data stored in the first and second copy would be the most recent.

Claim 2:

A process execution management system of claim 1, wherein the data center component is configured to register with a registry service.

Fera fails to explicitly disclose registering with a registry service. However, Godfrey discloses registration with a registry service. (See Fig. 5 index 150); See also col. 7, lines 10-15 and col. 4, lines 9-15.

Fera and Godfrey are analogous art because they both involve a controller connected to a data center through users' interfaces.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the service system articulated by Fera with the

registry system disclosed by Godfrey because this combination would result in a system whereby registered computers would be monitored and upgrades automatically downloaded.

Claim 4:

A process execution management system of claim 2, wherein each of the user interfaces provides the registry service with a user interface identification.

Fera fails to explicitly disclose providing user interface identification with the registry service. However, Godfrey discloses such limitation. See col. 7, lines 50-55.

Fera and Godfrey are analogous art because they both involve a controller connected to a data center through users' interfaces.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the service system articulated by Fera with the registry system disclosed by Godfrey because communication with registered computers would be facilitated knowing the user interface identifications.

Claim 5:

A process execution management system of claim 2, wherein each of the user interfaces provides the registry service with a user interface address.

Fera fails to explicitly disclose providing user interface address to the registry service. However, Godfrey discloses such limitation. See col. 7, lines 50-52. It is implicit that an address is included when an HTTP request is made.

Fera and Godfrey are analogous art because they both involve a controller connected to a data center through users' interfaces.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the service system articulated by Fera with the registry system disclosed by Godfrey because communication with registered computers would be facilitated knowing the user interface address.

Claim 6:

A process execution management system of claim 5, wherein the data center component implements a refresh command to update each of the copies of the data center component.

Fera fails to explicitly disclose implementation of a refresh command. However, Godfrey discloses such limitation. See col. 7, lines 55-60.

Fera and Godfrey are analogous art because they both involve a controller connected to a data center through users' interfaces.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the service system articulated by Fera with the refresh command disclosed by Godfrey because this system would insure communication is established by sending the command on a regular interval.

Claim 7:

A process execution management system of claim 6, wherein the data center component maintains each of the user interface identifications and each of the user interface addresses in an active list.

Fera fails to explicitly disclose an active list of registered clients. However, Godfrey discloses such limitation. See col. 7, lines 20-25 and lines 48-49.

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Fera and Godfrey are analogous art because they both involve a controller connected to a data center through users' interfaces.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the service system articulated by Fera with the active list disclosed by Godfrey because an active list would insure that only registered clients are contacted.

Claim 8:

A process execution management system of claim 6, wherein the data center component awaits receiving a refresh acknowledged command from each of the user interfaces.

Fera fails to explicitly disclose a refresh acknowledged command. However, Godfrey discloses such limitation. See col. 4, lines 41-45.

Fera and Godfrey are analogous art because they both involve a controller connected to a data center through users' interfaces.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the service system articulated by Fera with the refresh acknowledged command disclosed by Godfrey because a refresh acknowledged command would add to the handshake thereby providing a robust protocol.

Claim 9:

A process execution management system of claim 7, wherein the data center component removes a user interface identification and a user interface address of the

user interface failing to dispatch a refresh acknowledged command to the data center component.

Fera fails to explicitly disclose removing a user interface address of the user interface failing to dispatch a refresh acknowledged command. However, Godfrey discloses such limitation. See col. 7, lines 61-64.

Fera and Godfrey are analogous art because they both involve a controller connected to a data center through users' interfaces.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the service system articulated by Fera with the removal of unacknowledged refresh command disclosed by Godfrey because the list would be more accurate by reflecting the current list of registered clients.

Claim 10:

A process execution management system of claim 6, wherein each of the user interfaces awaits receiving a refresh command for a predetermined period of time.

Fera fails to explicitly disclose receiving a refresh command for a predetermined period of time. However, Godfrey discloses such limitation. See col. 7, lines 55-59.

Fera and Godfrey are analogous art because they both involve a controller connected to a data center through users' interfaces.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the service system articulated by Fera with receiving a refresh command for a predetermined period of time disclosed by Godfrey because it would provide for predictable communication.

### Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Coffy whose telephone number is (571) 272-3997. The examiner can normally be reached on 8:30 - 5:00 P.M.

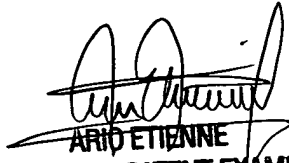
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-3997. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Emmanuel Coffy, Esq.  
Patent Examiner  
Art Unit 2157

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EC  
Fev 17, 2005

  
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SUPERVISORY PATENT EXAMINER  
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